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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-02-07-09 **Date: 10-02-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP,
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Munnikondappa Layout in Bagaalagunte ward No.14
Agency	:	Sri.Sree RamaReddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference	:	EE/DD/LOA/1658/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-18
Sample ID No	:	2018-02-07-09 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-02-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.29	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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Certificate No.: TC- 5548

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	**CP-2018-02-07-09**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. **Date: 08-03-18**
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Munnikondappa Layout in Bagaalagunte ward No.14
Agency	:	Sri.Sree RamaReddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference	:	EE/DD/LOA/1658/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-18
Sample ID No	:	2018-02-07-09 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-02-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-02-06-11**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. **Date: 07-02-18**
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Munnikondappa Layout in Bagaalagunte ward No.14
Agency	:	Sri.Sree RamaReddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1658/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-11/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-02-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	309.0	309.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.0	76.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	240.7	232.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	22.0	24.6
6	Aggregate impact value (Mean of two tests)	Pecentage	23.3	

Note:-

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Certificate No.: TC- 5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-02-06-11** **Date: 07-02-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Munnikondappa Layout in Bagaalagunte ward No.14
Agency	:	Sri.Sree RamaReddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1658/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-11/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-02-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	14.2	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.3	
Combined Flakiness and Elongation Index for WMM	24.6	

Note:-
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-02-06-11** **Date: 07-02-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Munnikondappa Layout in Bagaalagunte ward No.14
Agency	:	Sri.Sree RamaReddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference	:	EE/DD/LOA/1658/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-11/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	06-02-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	232	232	2.3	97.7	95-100
22.4	2133	2365	23.7	76.4	60-80
11.2	2365	4730	47.3	52.7	40-60
4.75	1321	6051	60.5	39.5	25-40
2.36	1886	7937	79.4	20.6	15-30
0.6	255	8192	81.9	18.1	8-22
0.075	1399	9591	95.9	4.1	0-5

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-07-09** **Date: 10-02-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Munnikondappa Layout in Bagaalagunte ward No.14
Agency	:	Sri.Sree RamaReddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference	:	EE/DD/LOA/1658/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-02-18
Sample ID No	:	2018-02-07-09 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	198	198	1.3	98.7	90-100
3	20 mm	6238	6436	42.9	57.1	30-70
4	10 mm	5022	11458	76.4	23.6	10-35
5	4.75 mm	3215	14673	97.8	2.2	0-5
6	Pan	327	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID : **CP-2018-02-07-09**

Sample ID No : 2018-02-07-09 /02(a)

Date: 10-02-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	14.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.21	–

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